

AMENDMENTS TO THE SPECIFICATION

Please replace paragraph [0015] with the following replacement paragraph, and add the following new paragraphs after paragraph [0015]:

[0015] Figure 1 shows the basic construction of the proposed illuminating and irradiating unit with a slit lamp~~[[.]]~~;

[0015.01] Figure 2 shows an embodiment where the illumination source is arranged as a separate structural component part outside of the actual illumination unit; and

[0015.02] Figure 3 shows an embodiment where the illuminating and irradiating unit is conceived as a modular unit.

Please replace paragraphs [0019] – [0021], [0025], and [0028] with the following replacement paragraphs [0019] – [0021], [0025], and [0028]:

[0019] As seen in Figure 2, in another construction of the illuminating and irradiating unit for different ophthalmic instruments, the illumination source 1 is arranged as a separate structural component 14 part outside of the actual illumination unit.

[0020] The connection to the means for generating special illumination patterns and/or profiles which are located in the illumination unit is produced by light guides 13.

[0021] [0021] Further, the illuminating and irradiating unit can have a monitoring unit 12 for monitoring the radiation dose, for recording the irradiation pattern, and for registering the irradiated positions. The monitoring unit 12 preferably has one or more interfaces 10 for transferring data. A computer which can be integrated, for example, in the base 11 of the slit lamp can be used as a monitoring unit.

[0025] An eyetracker unit ~~(not shown)~~ 15 which is provided in addition is used for monitoring possible eye movements, monitoring the orientation of the illumination patterns on the areas to be irradiated during irradiation and/or for tracking the illumination patterns. The tracking of the illumination patterns can be carried out mechanically as well as optically. When the illumination pattern radially or laterally exceeds a certain previously determined tolerance value for a time period that has likewise been determined beforehand, the irradiation can be interrupted and continued only when the targeted state has been achieved again. Further, the time period for irradiation can be evaluated in order not to exceed the respective radiation dose.

However it is also possible for the illumination pattern to follow the eye movement.

[0028] The proposed technical solution can also be conceived as a modular unit 18 for retrofit installation in the parallel beam path of an ophthalmic instrument. In addition, a beamsplitter already existing in the respective ophthalmic instrument is used. The illuminating and irradiating unit can accordingly be used as an independent unit or as an additional unit for different ophthalmic instruments such as slit lamps, fundus cameras, laser scanners, ophthalmoscopes and OPMI devices.

No new matter was added by any of the above amendments.